WE CLAIM:

1. A video coder, comprising:

a pixel transposition circuit that receives blocks of image data, each block including image data of an array of pixels, said pixel transposition circuit transposing selected pixels on a boundary of a first block with selected boundary pixels of a plurality of blocks neighboring said first block,

a transform circuit that generates coefficients representative of data of the transposed blocks, and

a quantizer that scales the coefficients.

2. The video coder of claim 1, wherein the pixel transposition circuit transposes alternate pixels along the boundary of said first block with pixels from the neighboring blocks adjacent to the alternate pixels in a transposition direction.

3. The video coder of claim 2 wherein the transposition direction is a diagonal direction, high-left to low-right.

4. The video coder of claim 2 wherein the transposition direction is a diagonal direction, low-left to high-right.

5. The video coder of claim 2, wherein the transposition direction is a vertical direction for pixels along a vertical edge of the first block and a horizontal direction for pixels along a horizontal edge of the first block.

6. A video decoder, comprising:

a dequantizer that receives blocks of scaled coefficient information and reconstructing coefficients therefrom,

an inverse transform circuit that reconstructs blocks of pixel data from the blocks of reconstructed coefficients, and

a pixel transposition circuit that transposes pixels on a boundary of a first block with boundary pixels of a plurality of blocks neighboring said first block and generating blocks of image data for display.

7. The video decoder of claim 6, wherein the pixel transposition circuit transposes alternate pixels along the boundary of the first block with pixels from the neighboring blocks adjacent to the alternate pixels in a transposition direction.

8. The video decoder of claim 7, wherein the transposition direction is a diagonal direction, high-left to low-right.

9. The video decoder of claim 7, wherein the transposition direction is a diagonal direction, low-left to high-right.

10. The video decoder of claim 7, wherein the transposition direction is a vertical direction for pixels along a vertical edge of the first block and a horizontal direction for pixels along a horizontal edge of the first block.

11. A method of encoding image data, comprising the steps of:

receiving blocks of image data, each block including data for an array of pixels,

transposing selected pixels on a boundary edge of a first block with selected pixels from a plurality of blocks neighboring said first block,

transforming pixel data of the blocks from the step transposing to coefficients, and

scaling the transformed blocks.

12. The method of claim 11, wherein the transposition step includes transposing alternate pixels along the boundary of the first block with pixels from the neighboring blocks adjacent to the alternate pixels in a transposition direction.

13. The method of claim 12, further comprising a step of generating a transposition keyword representative of the transposition direction.

14. The method of claim 12, wherein the transposition direction is a diagonal direction, high-left to low-right.

15. The method of claim 12, wherein the transposition direction is a diagonal direction, low-left to high-right.

16. The method of claim 12, wherein the transposition direction is a vertical direction for pixels along a vertical edge of the first block and a horizontal direction for pixels along a horizontal edge of the first block.

17. A method of decoding blocks of encoded image data, comprising the steps of:

scaling the coded blocks to obtain blocks of coefficient data,

transforming the coefficient data of the blocks to pixel data, and

transposing selected pixels on a boundary edge of a first block with selected pixels from a plurality of blocks neighboring said first block.

18. The method of claim 17, wherein the transposition step transposes alternate pixels along the boundary of the first block with pixels from the neighboring blocks adjacent to the alternate pixels in a transposition direction.

19. The method of claim 18, further comprising a step of receiving a transposition keyword that identifies a transposition direction.

20. The method of claim 18, wherein the transposition direction is a diagonal direction, high-left to low-right.

21. The method of claim 18, wherein the transposition direction is a diagonal direction, low-left to high-right.

22. The method of claim 18, wherein the transposition direction is a vertical direction for pixels along a vertical edge of the first block and a horizontal direction for pixels along a horizontal edge of the first block.

23. A bitstream generated by a process comprising the steps of:

receiving blocks of image data, each block including data for an array of pixels,

transposing selected pixels on a boundary edge of a first block with selected pixels from blocks neighboring the first block,

transforming pixel data of the transposed blocks to coefficients, and

scaling the transformed blocks.

24. The method of claim 23, wherein the transposition step includes a step of transposing alternate pixels along the boundary of the first block with pixels from the neighboring blocks adjacent to the alternate pixels in a transposition direction.

25. The method of claim 24, further comprising a step of generating a transposition keyword representative of the transposition direction.

26. The method of claim 24, wherein the transposition direction is a diagonal direction, high-left to low-right.

27. The method of claim 24, wherein the transposition direction is a diagonal direction, low-left to high-right.

28. The method of claim 24, wherein the transposition direction is a vertical direction for pixels along a vertical edge of the first block and a horizontal direction for pixels along a horizontal edge of the first block.